



Welcome
Who We Are
What We Do
Resources
How We Work
Where We Are Going
How We Meet Our Customers' Needs

United States Army

Redstone Technical Test Center (RTTC)





What We Do

Instrument Development


RTTC designs and develops test station instrumentation, fixtures, and target sources that are capable of monitoring tactical equipment in operational or laboratory environments and exercises.



2.75" modular missile telemetry kit



M-151 2.75" warhead telemetry kit



Radar instrumentation

Overview

Primary Services & Capabilities

Test Management Services

Supplemental Services

Web Site Map/Navigation Outline

Doing Business With RTTC

Employment Information

Contacting Us

Keyword/Key Phrase Search

Links to Related Sites

Acknowledgement

Hi Perf. Computing Distributed Center

Request Test Services


Home



Kneeboard used with LOCAITS



TA-6 range control room



HELLFIRE launcher test station

Primary Services and Capabilities

- Telemetry
 - Telemetry system concept, design, modification, procurement, fabrication, test, and integration of Airborne Instrumentation Systems for R&D and fielded weapon systems
 - Telemetry ground station facilities (both fixed and mobile) and data acquisition services to support flight and ground testing at RTTC and other remote sites
 - Gage laboratory

- Film and data reduction
- Custom instrumentation development, testing, integration, and engineering support
- Range Operations Components for Integrated Testing (ROCIT), an ongoing range upgrade project to implement enhanced test capabilities
 - State-of-the-art test instrumentation and data reduction capabilities providing reduced setup and data processing time
 - Enhanced "Test-the-Test" capabilities to get it right the first time
 - Distributed test capabilities to expand the envelope of test participants
- "Unit-Under-Test" instrumentation
 - Time/Space/Position/Information (TSPI-GPS) & other observable phenomena
 - System, subsystem, and component level data
 - RF-hardened instrumentation
 - Ruggedized data acquisition systems integrated onto weapons platforms
- Computer based distributed instrumentation
 - Multiple participants, real-time acquisition
 - Live/virtual interfaces
 - Test control
 - Highly flexible building block approach
 - Data archive
- Data reporting/management
 - Real-time displays for test conductors, evaluators, and customers
 - Flexible ground-truth database and post mission reporting tools and analysis
 - Custom databases, interfaces, and flexible data mining tools
- Design and fabrication of specialized mechanical, electro-optical, and electronic test instrumentation
 - Special inspection equipment
 - Data acquisition equipment
 - Automated test equipment
 - All-up-round missile test sets (HUTS, JETS, and LETS)
- Test Station Development (Stand-alone systems)
 - Ruggedized/fieldable hardware
 - Versa Extensions for Instrumentation (VXI)/Versa Module Europa (VME)

- Test Program Set (TPS) development for Intermediate Forward Test Equipment (IFTE) standard
 - Modularized/automated data acquisition
- Modeling of test instrumentation to optimize the test
- Integration of "unit-under-test" models and simulations into data acquisition and analysis systems

Supplementary Services

- Liaison between instrumentation research programs and actual Army/DoD program needs

[Click here for a printable version of this page.](#)
[Adobe Acrobat Reader](#) is required.

Please read this Privacy & Security Notice	<i>Last updated January 2, 2002</i>	Please send questions or comments about this page to webmaster@rttc.army.mil
		Back to Top